

SUBROUTINE SBAREA

Description

This routine computes the area of a basin using the user specified points and approximates the number of grid points in the basin.

Calling Sequence

CALL SBAREA (X,Y,NBPTS,GRIDL,NGRID,AREA,ISTAT)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
X	I	R*4	NBPTS	Array of X coordinate basin boundary points
Y	I	R*4	NBPTS	Array of Y coordinate basin boundary points
NBPTS	I	I*4	1	Number of basin boundary points
GRIDL	I	R*4	1	Grid length near the center of the basin
NGRID	O	I*4	1	Number of grid points within basin based on computed area
AREA	O	I*4	1	Area of the basin (KM2)
ISTAT	O	I*4	1	Status code: 0 = okay 1 = error